BOOK

| ons | | Contents | Reference to last Measurement |
|---|---|---|---|
| eadth 5 | Depth 6 | 7 | 8 |
| | | | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B** 424315

2st and final bill:

Serial No. Premeasurements

Name of Work Improvements of drains From and roads in D To pillappa layout, amruthahalli

Name of Contractor of nature of Agency and surrounding areas in ward no.07 byatarayanapura:

Date of commencement of work 16-10-17

| Date 1 | Full description, etc, of work 2 | Dimensions | | | | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | Number 3 | Length 4 | Breadth 5 | Depth 6 | | |
| | Est cost: | 25.00 lakhs | | | | | |
| | Job code: | 007-17-000018 ; P-code: 17711 | | | | | |
| | A.S.No:- | AS\|CE\|YNK\|71\|16-17; dt: 31-12-17. | | | | | |
| | T.S.No:- | TS\|CE\|YNK\|82\|16-17; dt: 31-12-17. | | | | | |
| | Approved tender price:- | 23,58756.57. | | | | | |
| | Agr No:- | NO.BBMP\|EE\|BTP\|Agr\|249\|16-17; dt: 30-03-17 | | | | | |
| | Work order no:- | NO.BBMP\|EE\|BTP\|WO\|249\|16-17; dt: 30-03-17. | | | | | |
| | Agency Address:- | Sri. Narasimharaju.K. | | | | | |

T BOOK

| Dimensions | | Contents | Reference to last Measurement |
|---|---|---|---|
| Breadth 5 | Depth 6 | 7 | 8 |
| 2·0 | 0·2 = | 11·60 | |
| | | 23·60 cum | |
| 2·0 | 0·2 = | 13·20 cum | |
| 2·0 | 0·2 = | 11·20 cum | |
| 2·0 | 0·15 = | 9·0 | |
| 2·0 | 0·15 = | 9·0 | |
| | | 18·0 cum | |
| 2·0 | 0·20 = | 12·0 | |
| 2·0 | 0·15 = | 8·40 | |
| | | 20·40 cum. | |
| TOTAL = | | 170·40 cum | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424321

Serial No. MAIN BILL:
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work ... Date of recording:

| Date | Full description, etc, of work 2 | Dimensions | | | | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | Number 3 | Length 4 | Breadth 5 | Depth 6 | | |
| | Item No. 01:- Earthwork excavation for buildings, water supply, sanitary lines & electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in above in width, dressing the bottom & sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications. | | | | | | |
| | Qty vide page no 424/4 \| 424/317 → | | | | | 409.2 cum | |
| | At the rate of Rs. 79·33 → | | | | | | 32461.80 |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Item No 14:- Loading and unloading of stone boulders/ stone aggregates/ sand/ kanker/ moorum. Qty vide Item No 0.1 → 409.20 cum At the rate of Rs. 90.45 → | | | | | | 37012.00 |
| | Item No 9:- Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete in layers not exceeding 15cms, thick well compacted in foundation and plinth, including cost of all materials, labour tOM machinery curing complete., Qty vide page No. 4244/424318 → 53.33 cum | | | | | | |

M. A. R. 5
Measure

erial No. .....
ame of Work ..... From.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Number | L |
|---|---|---|---|
| | 2 | 3 | |
| | At the rate of Rs. 4837 | | |
| | Item No 05:- Providing and fabricating including straightening, cutting lapping and or welding wherev anchoring to the adjoining me design. Qty vide page no 4244 At the rate of Rs 565 | | |

MENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| ength 4 | Breadth 5 | Depth 6 | 7 | 8 |
| | | | | |
| of stone boulders | | | stone aggregates | |
| → 409.20 cum | | | | |
| 5 → | | | | 37012.00 |
| | | | | |
| osition plain cement concrete of | | | | |
| and down size graded granite | | | | |
| n layers not exceeding 15 cm, | | | | |
| ion and plinth, including cost of | | | | |
| inery curing complete., | | | | |
| 4/424318 → 53.33 cum | | | | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424322

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

| ate | Full description, etc, of work 2 | Dimensions | | | | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | Number 3 | Length 4 | Breadth 5 | Depth 6 | | |
| | At the rate of | Rs. 4837.35 → | | | | | 2,57975.00 |
| | Item No.05:- Providing and fabricating TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire & anchoring to the adjoining members wherever necessary complete as per design. | | | | | | |
| | Qty vide page no 424/4/424319 → | | | | 4.55 tonne. | | |
| | At the rate of Rs 56598.82 → | | | | | | 257524.00 |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Item No. 06:- Providing and removing, centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness including attached pilasters, buttressed, plinth and string courses cost of materials, labour complete. Qty vide page no. 4244 \| 4243-19 → 301.0 sq.m At the rate of Rs. 292.60 → | | | | | | 88072.50 |
| | Item No. 11:- Providing laying, spreading and compacting graded fine aggregate to wet mix- macadam specifications including pre-mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tepper to site, laying in uniform | | | | | | |

M. A. R.
Measu

erial No. .....
ame of Work ..... From.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Number |
|---|---|---|
| 1 | 2 | 3 |
| | layers with pavers in sub-base/b compacting with vibratory roller Qty vide page no. 4244 \| At the rate of Rs. 1635.11 | |
| | Item No. 03:- Providing and laying in mix 1:2:4 with cement @ 240kg metal coarse aggregates @ machine mixed concrete laid | |

ENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| gth | Breadth 5 | Depth 6 | 7 | 8 |
| | | | | |
| entering, shuttering, strutting, | | | | |
| orm work for vertical surface such as | | | | |
| attached pilasters, buttressed, | | | | |
| naterials, labour complete. | | | | |
| 43.19 → | 301.0 | sq.m | | |
| | | | | 88072.50 |
| | | | | |
| and compacting graded | | | | |
| n specifications including pre- | | | | |
| OMC in mechanical mix plant | | | | |
| pper to site, laying in uniform | | | | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424323

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

| Date | Full description, etc, of work 2 | Dimensions Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | layers with pavers in sub-base/base course on well prepared surface & compacting with vibratory roller to achieve the desired density complete., | | | | | | |
| | Qty vide page no. 4244 | | 424320 → | | 167.20 | cum. | |
| | At the rate of Rs. 1635.11 → | | | | | | 2,73390.00 |
| | Item No. 03:- | | | | | | |
| | Providing and laying in position plain cement concrete of nominal mix 1:2:4 with cement @240kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.459cum machine mixed concrete laid in layers not exceeding 15cms, thick | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | well compacted, in foundation, plinth and sills including cost of all materials labour tools machinery curing complete., | | | | | | |
| | Culvert · bottom: | 1x1=2 | 5.0 | 1.80 | 0.15 | = 2.70 | |
| | Neth ajinagara: 1st cross road. 0-25 | 01 | 25.0 | 5.0 | 0.15 | = 18.75 | |
| | 25-41 | 01 | 16.0 | 3.0 | 0.15 | = 7.20 | |
| | Jakkur-talakaveri layout cross road: | | | | | | |
| | 0-20 | 01 | 20.0 | 2.0 | 0.15 | = 6.0 | |
| | | | | TOTAL = | | 34.65 cum | |
| | Qty ltd to 34.58 cum | | | | | | 181135 |
| | At the rate of Rs. 5238.14 → | | | | | | 181501.50 |

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erial No. .....
ame of Work ..... From....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Number |
|---|---|---|
| 1 | 2 | 3 |
| | Item No.04:- | |
| | Providing and laying in | |
| | mix M20 with OPC cement @ 320 | |
| | granite metal coarse aggreg | |
| | 0.459 cum with superplastizers | |
| | REC-DRAIN: BOTTOM:- | |
| | 0-15 | 1x2=2 |
| | 15-30 | 1x2=2 |
| | 30-45 | 1x2=2 |
| | 45-60 | 1x2=2 |

## EMENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| , plinth and cills including cost of | | | | |
| chinery curing complete., | | | | |
| 5·0 | 1·80 | 0·15 = | 2·70 | |
| 25·0 | 5·0 | 0·15 = | 18·75 | |
| 16·0 | 3·0 | 0·15 = | 7·20 | |
| road: | | | | |
| 20·0 | 2·0 | 0·15 = | 6·0 | |
| | TOTAL = | | 34·65 cum | |
| | | | | 181135 |
| 238·14 → | | | | 181501·50 |

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424324

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

| Date | Full description, etc, of work 2 | Dimensions Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | Item No.04:- Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs with 20mm and down size graded granite metal coarse aggregates @ 0.872 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts conforming to IS 9103-1999. | | | | | | |
| | REC-DRAIN: BOTTOM:- | | | | | | |
| | 0-15 | 1x2=2 | 15·0 | 0·75 | 0·10 | = 2·25 | |
| | 15-30 | 1x2=2 | 15·0 | 0·75 | 0·10 | = 2·25 | |
| | 30-45 | 1x2=2 | 15·0 | 0·75 | 0·10 | = 2·25 | |
| | 45-60 | 1x2=2 | 15·0 | 0·75 | 0·10 | 2·25 | |

q.w.

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | q.w | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 60-75 | 1x2=2 | 15.0 | 0.75 | 0.10 | = 2.25 | |
| | 75-90 | 1x2=2 | 15.0 | 0.75 | 0.10 | = 2.25 | |
| | 90-105 | 1x2=2 | 15.0 | 0.75 | 0.10 | = 2.25 | |
| | 105-110 | 1x2=2 | 5.0 | 0.75 | 0.10 | = 0.75 | |
| | | | | | | 16.50 cum. | |
| | SIDEWALL:- | | | | | | |
| | 0-15 | 2x2=4 | 15.0 | 0.60 | 0.10 | = 3.60 | |
| | 15-30 | 2x2=4 | 15.0 | 0.60 | 0.10 | = 3.60 | |
| | 30-45 | 2x2=4 | 15.0 | 0.60 | 0.10 | = 3.60 | |
| | 45-60 | 2x2=4 | 15.0 | 0.65 | 0.10 | = 3.90 | |
| | 60-75 | 2x2=4 | 15.0 | 0.65 | 0.10 | = 3.90 | |
| | 75-90 | 2x2=4 | 15.0 | 0.70 | 0.10 | = 4.20 | |
| | 90-105 | 2x2=4 | 15.0 | 0.70 | 0.12 | = 5.04 | |
| | 105-110 | 2x2=4 | 5.0 | 0.70 | 0.10 | = 1.40 | |
| | | | | | | 29.24 cum | |
| | | | | | | 45.74. | |

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erial No. .....
ame of Work ..... From..
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Number |
|---|---|---|
| 1 | 2 | 3 |
| | Qty Hd | to. 45.9 |
| | At the rate of Rs | |
| | Item No. 09:- | |
| | Providing and fixing reinforced cement concrete Mix size including centering shut mixed concrete laid in layers of all materials labour | cum |

OOK

| dth | Depth 6 | Contents 9.00 7 | Reference to last Measurement 8 |
|---|---|---|---|
| | 0.10 | = 2.25 | |
| | 0.10 | = 2.25 | |
| | 0.10 | = 2.25 | |
| | 0.10 | = 0.75 | |
| | | 16.50 cum. | |
| | 0.10 | = 3.60 | |
| | 0.10 | = 3.60 | |
| | 0.10 | = 3.60 | |
| | 0.10 | = 3.90 | |
| | 0.10 | = 3.90 | |
| | 0.10 | = 4.20 | |
| | 0.12 | = 5.04 | |
| | 0.10 | = 1.40 | |
| | | 29.24 cum | |
| | | 45.74. | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B** 424325

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date 1 | Full description, etc, of work 2 | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | | | TOTAL= | | 45.74 cum | |
| | Qty Hd to 45.5 cum | | | | | | |
| | At the rate of Rs 5913.0 → | | | | | | 2690 41.50 |
| | Item No. 09.- Providing and fixing 10cms thick pre-cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregates 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm thick well compacted cost of all materials labour curing complete as per specifications. | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | C&F.C. 26/11 | | | | | | |
| | 0-15 | 2.0 | 15.0 | 0.90 | - | = 27.0 | |
| | 15-30 | 2.0 | 15.0 | 0.90 | - | = 27.0 | |
| | 30-45 | 2.0 | 15.0 | 0.90 | - | = 27.0 | |
| | 45-60 | 2.0 | 15.0 | 0.90 | - | = 27.0 | |
| | 60-75 | 2.0 | 15.0 | 0.90 | - | = 27.0 | |
| | 75-96 | 2.0 | 21.0 | 0.90 | - | = 37.80 | |
| | | | | | | 172.80 Sqm | |
| | At the rate of Rs. | 1751.54 → | | | | | 302666.00 |
| | Item. No.07:- Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cm high, bond stones at 2m | | | | | | |

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erial No. .....
lame of Work ..... From
lame of Contractor of nature of Agency .....
)ate of commencement of work .....

| Date | Full description, etc, of work | Number |
|---|---|---|
| 1 | 2 | 3 |
| | apart in each course complete as per specificat | includi |
| | CULVERT- SIDEWALL: | 2x2=4 |
| | Drain - damaged qty: | 1x2=2 |
| | C&F.C. 26/11 | 1x2=2 |
| | At the rate of Rs. 329 | |

NT BOOK

| ensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| | Breadth 5 | Depth 6 | 7 | 8 |
| | 0.90 | - | = 27.0 | |
| | 0.90 | - | = 27.0 | |
| | 0.90 | - | = 27.0 | |
| | 0.90 | - | = 27.0 | |
| | 0.90 | | = 27.0 | |
| | 0.90 | - | = 37.80 | |
| | | | 172.80 Sqm | |
| | | | | 302666.00 |
| ite) | trap) | basalt | stone | |
| tar | 1:6, | stone | hammered | |
| ugh, | bond | stones | at 2m | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424326

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number 3 | Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| | apast in each course | including cost of materials, | | labour, | curing etc, | | |
| | complete as per | specifications. | | | | | |
| | CULVERT- SIDE WALL: | 2x2=4 | 5.0 | 1.80 | 0.90 | = 32.40 | |
| | Drain - damaged qty: | 1x2=2 | 20.0 | 0.45 | 0.90 | = 18.0 | |
| | | 1x2=2 | 5.0 | 0.45 | 0.90 | = 4.05 | |
| | | | | | | 22.05 cum | |
| | C/F.6 | | | | TOTAL | 54.59 cum | |
| | At the rate of Rs. 3297.02 → | | | | | | 179984.00 |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | **Item No.08:-** | | | | | | |
| | Providing ruled pointing of course stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing etc., complete as per specifications. | | | | | | |
| | Culvert - side wall: | 2x2=4 | 5.0 | - | 0.90 | = 18.0 | |
| | Drain - sidewall:- | 1x2=2 | 20.0 | - | 0.90 | = 36.0 | |
| | | 1x2=2 | 5.0 | - | 0.90 | = 9.0 | |
| | | 1x2=2 | 30.0 | - | 0.90 | = 54.0 | |
| | | 1x2=2 | 32.0 | - | 0.90 | = 57.60 | |
| | | | | | | 174.60 sqm | |

Serial No. .....
Name of Work ..... Fro
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date | Full description, etc, of work | Numbe |
|---|---|---|
| 1 | 2 | 3 |
| | qty Ltd | to 1 |
| | At the rate of | |
| | **Item No.10:-** | |
| | Providing and firin reinforced cement concrete M including centering shutter mixed concrete laid in lay cost of all materials. | |

BOOK

| ns | | Contents | Reference to last Measurement |
|---|---|---|---|
| eadth 5 | Depth 6 | 7 | 8 |
| se stone masonry with | | | |
| aking joints to depth of 20mm | | | |
| als, labour, curing etc., | | | |
| - | 0.90 = 18.0 | | |
| | 0.90 = 36.0 | | |
| | 0.90 = 9.0 | | |
| | 0.90 = 54.0 | | |
| | 0.90 = 57.60 | | |
| | 174.60 sqm | | |

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B** 424327

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date 1 | Full description, etc, of work 2 | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | Qty Ltd to 172.80 sq.m | | | | | | 5875.00 |
| | At the rate of Rs. 34.0 → | | | | | | |
| | Item No. 10:- Providing and firing 20cm thick pre-cast RCC covering slab using reinforced cement concrete M20 with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm thick well compacted cost of all materials. | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | 12.0 | 1.80 | 0.60 | - | = 12.96 sqm | |
| | At the rate of Rs. 4875.89 → | | | | | | 63191.50 |
| | Item No.12:- | | | | | | |
| | Providing and applying tack coat with 80/100 grade bitumen (VG10) on the prepared black topped surface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials., | | | | | | |
| | Nathajinagara:- | | | | | | |
| | 1st main road:- 0-30 | 1.0 | 30.0 | 6.0 | - | = 180.00 | |
| | 30-60 | 1.0 | 30.0 | 6.0 | - | = 180.00 | |
| | 60-90 | 1.0 | 30.0 | 5.5 | - | = 165.00 | |
| | 90-120 | 1.0 | 30.0 | 6.0 | - | = 180.00 | |

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M.

erial No. .....

lame of Work ..... F

lame of Contractor of nature of Agency .....

Date of commencement of work .....

| Date | Full description, etc, of work | | Num |
|---|---|---|---|
| 1 | 2 | | 3 |
| | | 120-150 | 1.0 |
| | | 150-180 | 1.0 |
| | | 180-210 | 1.0 |
| | LHS:- 5th cross: | 0-30 | 1.0 |
| | | 30-59 | 1.0 |
| | 4th cross: | 0 33 | 1.0 |
| | RHS:- 2nd cross | 0-28 | 1.0 |
| | 4th cross | 0-30 | 1.0 |

T BOOK

| sions | | Contents | Reference to last Measurement |
|---|---|---|---|
| Breadth 5 | Depth 6 | 7 | 8 |
| 0·60 | - | = 12·96 sqm | 63191·50 |
| | | with 80/100 grade bitumen | |
| | | face at 2·5 kg per 10 sqm, heating | |
| | | (excluding cleaning of road | |
| ·) | | | |
| 0 | - | = 180·00 | |
| ·0 | - | = 180·00 | |
| ·5 | - | = 165·00 | |
| ·0 | - | = 180·00 | |

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**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B**

424328

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date 1 | Full description, etc, of work 2 | | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|---|
| | | 120 - 150 | 1·0 | 30·0 | 6·20 | - | = 186·0 | |
| | | 150 - 180 | 1·0 | 30·0 | 5·50 | - | = 165·0 | |
| | | 180 - 210 | 1·0 | 30·0 | 5·50 | - | = 165·0 | |
| | | | | | | | 1221·00 Sq.m | |
| | LHS:- 5th class: | 0·30 | 1·0 | 30·0 | 4·50 | - | = 135·0 | |
| | | 30 - 59 | 1·0 | 29·0 | 4·50 | - | = 130·50 | |
| | | | | | | | 265·50 Sq.m | |
| | 4th class: | 0 33 | 1·0 | 33·0 | 4·50 | - | = 148·50 Sq.m | |
| | RHS:- 2nd class | 0-28 | 1·0 | 28·0 | 4·50 | - | = 126·00 Sq.m | |
| | 4th class | 0-30 | 1·0 | 30·0 | 4·50 | - | = 135·00 | |

1896·00

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | 1896- | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | 1.0 | 30.0 | 4.50 | - = | 135.0 | |
| | | | | | | 270.0 sq.m | |
| | 5th cross:- | 1.0 | 30.0 | 5.10 | - = | 153.0 | |
| | | 1.0 | 28.0 | 5.10 | - = | 142.80 | |
| | | | | | | 295.80 | |
| | | | | TOTAL= | | 2326.80 sqm | |
| | At the rate of Rs. 11.33 → | | | | | | 26362.60 |

Item No.13:-

Providing and laying semi dense- bituminous concrete using crushed aggregates of specified grading, premixed with bitumineous binder and filler, transporting the hot mix to work to site, laying with a hydrostatic paver with paver finisher to the required grade, Level, and alignment rolling with smooth wheeled, vibratory

M.

erial No. .....
ame of Work ..... F
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | | Numb |
|---|---|---|---|
| 1 | 2 | | 3 |
| | and tandem rollers to achie | | |
| | Nethajinagara:- | | |
| | 1st main road:- | 0-30 | 1.0 |
| | | 30-60 | 1.0 |
| | | 60-90 | 1.0 |
| | | 90-120 | 1.0 |
| | | 120-150 | 1.0 |
| | | 150-180 | 1.0 |
| | | 180-210 | 1.0 |
| | Hts:- | | |
| | 5th cross:- | 0-30 | 1.0 |

IT BOOK

| ensions Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|
| 4.50 | – | = 135.0 | |
| | | 270.0 sq.m | |
| 5.10 | – | = 153.0 | |
| 5.10 | – | = 142.80 | |
| | | 295.80 | |
| TOTAL= | | 2326.80 sqm | |
| | | 26362.60 | |

e- bituminous concrete using
ding, premixed with bituminous
l mix to work, to site, laying
isher to the required grade,
smooth wheeled, vibratory

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B** 424329

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date 1 | Full description, etc, of work 2 | | Dimensions Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|---|
| | and tandem rollers to achieve the desired compaction as per MORTH specification. | | | | | | | |
| | Nethajinagara:- | | | | | | | |
| | 1st main road:- | 0-30 | 1.0 | 30.0 | 6.00 | 0.025 | = 4.50 | |
| | | 30-60 | 1.0 | 30.0 | 6.00 | 0.025 | = 4.50 | |
| | | 60-90 | 1.0 | 30.0 | 5.50 | 0.025 | = 4.13 | |
| | | 90-120 | 1.0 | 30.0 | 6.00 | 0.025 | = 4.50 | |
| | | 120-150 | 1.0 | 30.0 | 6.20 | 0.025 | = 4.65 | |
| | | 150-180 | 1.0 | 30.0 | 5.50 | 0.03 | = 4.95 | |
| | | 180-210 | 1.0 | 30.0 | 5.50 | 0.03 | = 4.95 | |
| | His:- | | | | | | | |
| | 5th cross:- | 0-30 | 1.0 | 30.0 | 4.50 | 0.025 | = 3.38 | |

35.49

# MEASUREMENT BOOK

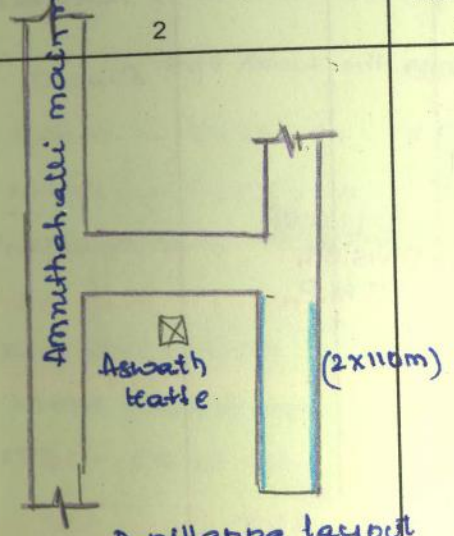
| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | 35.48 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | 30-59 | 01 | 29.0 | 4.50 | 0.025 = 3.26 | |
| | 4th cross:- | | 0-33 | 01 | 33.0 | 4.50 | 0.025 = 3.71 | |
| | Rhs side:- | | | | | | | |
| | 2nd cross | | 0-28 | 01 | 28.0 | 4.50 | 0.025 = 3.15 | |
| | 4th cross | | 0-30 | 01 | 30.0 | 4.50 | 0.025 = 3.38 | |
| | | | 30-60 | 01 | 30.0 | 4.50 | 0.025 = 3.38 | |
| | 5th cross | | 0-30 | 01 | 30.0 | 4.50 | 0.025 = 3.83 | |
| | | | 30-58 | 01 | 28.0 | 5.10 | 0.025 = 3.57 | |
| | | | | | | | 59.85 cum | 59.85 |
| | | | | | At the rate of Rs | 6245.79 → | | |
| | | | | | | TOTAL:- 23,48,870.00 | | 373810.50 |
| | | | | | | 23,48,504 - | | |

Assistant Executive Engineer.
Kodigehalli Sub Division No. N.D
Yelahanka Zone. B.B.M.P.
Bengalore.
AE(W7)
20/12/17

M. A. R. 5
Measur

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date | Full description, etc, of work | Number | L |
|---|---|---|---|
| 1 | 2 | 3 | |




D-pillappa layout

PLAN

# NT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| | Breadth 5 | Depth 6 | 35.49 7 | 8 |
| | 4.50 | 0.025 = | 3.26 | |
| | 4.50 | 0.025 = | 3.71 | |
| | 4.50 | 0.025 = | 3.15 | |
| | 4.50 | 0.025 = | 3.38 | |
| | 4.50 | 0.025 = | 3.38 | |
| | 5.10 | 0.025 = | 3.83 | |
| | 5.10 | 0.025 = | 3.57 | |
| | | | 59.85 cum | 59.85 |
| | | | 6245.79 → | |
| TOTAL:- | | | 23,488.50 | 373810.50 |
| | | | 23.48.50 h.w | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424330

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date 1 | Full description, etc, of work 2 | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | Amuthahalli main road | | | | | | |
| | Aswath textile (2x110m) | | | | | | |
| | D-pillappa layout PLAN | | | | | | |
| | (210x5.5m) (58x5.1)m 5th cross (59x4.5)m (60x4.5)m 4th cross (33x4.5)m | | | | | | |
| | (28x4.5)m 2nd cross | | | | | | |
| | 1st cross (4x4m) 1st main road | | | | | | |
| | Jain heritage school | | | | | | |
| | Nethajinagara. | | | | | | |

INDEX
Asphalt road
RCC-drain
CC-road.

Assistant Executive Engineer.

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Certificate:- | | | | | | |
| | 1) certified that the contractor has completed the works satisfactory | | | | | | |
| | 2) certified that debris has been removed from the work spot. | | | | | | |
| | Applied N.D<br>AE(W4) | | | | | | |
| | Accepted all measurements as per full & final settlement<br>K. [illegible] | | | | | | |

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M. A.
Mea

Serial No. Royalty charges:
Name of Work ..... From.
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date | Full description, etc, of work | Number |
|---|---|---|
| 1 | 2 | 3 Jel |
| sl.NO | Details | Co-ff |
| 02 | 40mm - 53.33 cum | 0.96 |
| 03 | 20 mm - 34.58 cum | 0.90 |
| 04 | Reinforced 20mm - 45.5 cum | 0.85 |
| 05 | 10cm slabs - 172.80 | - |
| 06 | 20cm slabs - 12.96 | - |
| 12 | 40MM - 167.20 cum | 1.0 |
| 13 | SDBC - 59.85 cum. | 1.40 |
| | TOTAL | |

T BOOK

| nsions | | Contents | Reference to last Measurement |
|---|---|---|---|
| Breadth 5 | Depth 6 | 7 | 8 |
| | | completed the work satisfactory | |
| | | d from the work spot. | |

Executive Engineer,
alli Sub Division,
ka Zone, B.B.M.P.,
Bangalore.

M. A. R. 57 (Rule 116)
Measurement Book

No. B 424331

erial No. Royalty charges:
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 Jelly | 4 | 5 Sand | 6 | 7 cement | 8 |
| | Sl. No Details | Co-eff | Qty | Co-eff | Qty | Co-eff | Qty. |
| | 02 40mm - 53.33 cum | 0.96 | 51.20 | 0.48 | 25.60 | - | - |
| | 03 20 mm - 34.58 cum | 0.90 | 31.10 | 0.45 | 15.5 | - | - |
| | 04 Reinforced 20mm - 45.5 cum | 0.85 | 38.60 | 0.416 | 16.5 | - | - |
| | 05 10cm slabs - 172.80 | - | | - | | - | - |
| | 06 20cm slabs - 12.96 | - | | - | | - | - |
| | 12 40MM - 167.20 cum | 1.0 | 167.20 | - | | - | - |
| | 13 SDBC - 59.85 cum. | 1.40 | 83.79 | - | | - | - |
| | TOTAL | | 371.90 | | 59.60 | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | ABSTRACT | | | | | | |
| | 1) coarse-aggregates: | 371.90 x 108 = | | 40165.80 | | | |
| | 2) fine-aggregates: | 59.6 x 103 = | | 6138.80 | | | |
| | | | | 46303.80/- | | | |

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date | Full description, etc, of work | N |
|---|---|---|
| 1 | 2 | |
| | ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 2 ಗಳನ್ನು ಪಾವತಿ ಮಾಡಿದೆ: ಇದರಲ್ಲಿ ಮೊಂಜಾಗ್ರತೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ Rs. Twenty-two (gkh six hundy thirty ಈ ಮುಖಾಂತರ ನಮೂದಾಗಿದೆ ಲೆಕ್ಕಪರಿಶೋಧಕರು ಚ. ಪಾಯಿಂಟ್ಸ್ ಕಾಲೇಜ್ ಚ. ಪೆ. ಮಂಗಳೂರು 26/12 | |

NT BOOK

| nensions | | Contents | Reference to last Measurement |
|---|---|---|---|
| Breadth 5 | Depth 6 | 7 | 8 |
| | | | |
| 08 = 40165.60 | | | |
| = 6138.80 | | | |
| 46303.80/- | | | |

**M. A. R. 57 (Rule 116)**
Measurement Book

B

424332

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date 1 | Full description, etc, of work 2 | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | ಬಲ್ಲ ಮೊಬಲಗು ರೂ | 23,48,504-00 | | | | Total Rs. 2348504-00 | |
| | ಗಳನ್ನು ಹಾಗು ಮಾಡಿದ : ಇದರ ರೂ | 99872-00 | | | | IT - 23485-00 | |
| | ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು | 2248632-00 | | | | CGST - 23485-00 | |
| | Rs. Twenty two lakh forty eight thousand six hundred thirty two only, | | | | | CBF - 2349-00 | |
| | ಇದಕ್ಕೆ ಮುಖಾಂತರವಾದದ್ದಾಗಿದೆ | | | | | LR - 46303-00 | |
| | ಲೆಕ್ಕಾಧೀಕ್ಷಕರು | | | | | Fine - 4250-00 | |
| | | | | | | Adj. 99872-00 | |
| | | | | | | Cheque 2248632-00 | |